

**Aumictech**

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**Data Sheet**

August 14, 2026

BK PRECISION

## BK Precision 1746 DC Power Supply

The BK Precision 1746 DC Power Supply is a linear multi-ampere laboratory DC supply. Bench DC power for lab, service, and production applications. Output Voltage Range Class: Tens of volts DC class per 1746 datasheet Output Current Range Class: Multi ampere class per 1746 datasheet Bench DC power for lab, service, and production applications. Output Voltage Range Class: Tens of volts DC class per 1746 datasheet Output Current Range Class: Multi ampere class per 1746 datasheet Operating Modes: Constant voltage and constant current class



MODEL

**BK Precision 1746**

CALIBRATION

**Available on request**

CONDITION

**Used**

STATUS

**In stock**

RFQ / SKU

**1746**

LISTING

<https://aumictechlabs.com/products/1746-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

### This unit

The BK Precision 1746 is a versatile DC power supply array of electronic testing and development applications. It has a continuously variable output voltage from 0 to 16 VDC and a current output of up to 10 amps. The unit has both constant voltage (CV) and constant current (CC) operation with an automatic and smooth crossover between modes, indicated by LED indicators. It features two selectable current ranges: a high range (0-10 A) and a low range (0-2 A) to enhance current settability and meter resolution for lower current values. The power supply is engineered for laboratory quality with excellent line and load regulation, and low ripple characteristics, ensuring stable and reliable power delivery for sensitive circuits and components. Technical Specifications Electrical Output: \* Output Voltage: 0 to 16 VDC, continuously adjustable via coarse and fine controls. Output Current: \* High Range: 0 to 10 A \* Low Range: 0 to 2 A Voltage Regulation: \* Line

(108-132 V):  $\leq(0.2\% + 2 \text{ mV})$  \* Load (no load to full load):  $\leq(0.04\% + 2 \text{ mV})$  Current Regulation: (Specifications for current regulation are not explicitly detailed in the provided documentation, but the unit has constant current operation.) Ripple Voltage: Low ripple characteristics (specific RMS or peak-to-peak values not detailed in all sources, but consistently cited as a feature). Constant Voltage (CV) Operation: Regulates output voltage at the value set by the VOLTAGE controls. CV indicator (Green LED) illuminates when in this mode. Constant Current (CC) Operation: Regulates output current at the value set by the CURRENT controls. CC indicator (Red LED) illuminates when in this mode. Crossover: Smooth and automatic transition between CV and CC modes. Metering and Indicators: \* Output Meters: Two large, easy-to-read analog meters continuously monitor output voltage and current. Mode Indicators: LED indicators (CV and CC) show the current operating mode. Power Indicator: LED acts as a pilot light. Protection and Reliability: \* Overload Protection: Fully adjustable current limiting, settable from 5% to 100% of maximum output current, to protect both the circuit under test and the power supply. Reverse Polarity Protection: Prevents damage to the power supply from external reverse voltage. Pre-Regulator: Incorporated to limit internal dissipation and enhance reliability, especially at lower output voltages. Isolated Output: Either polarity (positive or negative) can be floated or grounded. Continuous Duty: Rated for continuous operation at full output current. Configuration and Expandability: \* Series Operation: Two BK Precision 1746 units can be connected in series to create a power source with a voltage output of 0 to 32 VDC. Parallel Operation: Two BK Precision 1746 units can be connected in parallel (with appropriate balancing resistors) to provide up to twice the output current. Interfaces: \* Output Terminals: Standard output terminals for connecting to the load. Polarity is clearly marked (+ and -). Ground Terminal: A ground terminal is provided for chassis and earth ground connection, ensuring safety and proper grounding. Physical: \* Dimensions: Not explicitly stated in accessible documentation. Weight: Not explicitly stated in accessible documentation. Styling: Modern, functional styling with a logical and convenient control layout. Power Requirements: \* Input Voltage: Designed for use with a polarized 3-wire AC outlet. Internal fuse for protection. Line Voltage Conversion: While not detailed for the 1746 specifically, other B&K Precision manuals mention international unit conversion capabilities for some models. Compatibility: \* Applications: Suitable for a wide range of applications including electronics servicing, manufacturing, design labs, educational institutions, and hobbyist projects. Accessories: Available accessories may include hook-up cable sets (e.g., TL 5A). Why Choose Aumictech for the BK Precision 1746? At Aumictech, we specialize in supplying power solutio

## 1746 Characteristics / Specifications

| PARAMETER                   | VALUE                                                  |
|-----------------------------|--------------------------------------------------------|
| Output Voltage Range Class  | Tens of volts DC class per 1746 datasheet              |
| Output Current Range Class  | Multi ampere class per 1746 datasheet                  |
| Operating Modes             | Constant voltage and constant current class            |
| Metering                    | Front panel voltage and current meters                 |
| Protection                  | Current limiting and overload protection class         |
| Ripple Class                | Low ripple laboratory supply class                     |
| Regulation Class            | Laboratory supply regulation class                     |
| Form Factor                 | Benchtop DC supply                                     |
| Primary Power               | AC mains laboratory supply class                       |
| Cooling                     | Convection cooled class                                |
| Output Binding Posts        | Front panel binding posts                              |
| Series Family               | BK family laboratory DC supplies                       |
| Applications Class          | Bench DC power                                         |
| Display Type Class          | Analog or digital meters by revision                   |
| Weight Class                | Benchtop supply weight                                 |
| Isolation                   | Output floating relative to chassis class              |
| Current Limit               | Adjustable current limiting                            |
| Temperature Operation Class | Continuous operation within ratings class              |
| Warmup Time Class           | 15 minutes typical class                               |
| Relative Humidity Class     | Up to 80 percent noncondensing class                   |
| Export Classification Class | Commercial test equipment class                        |
| Series Parallel Class       | Two supplies may be series or parallel connected class |
| Voltage Controls Class      | Front panel adjust class                               |
| Humidity                    | Class: Up to 80 percent noncondensing class            |

# Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

| Specifications                                                                                                                                       |                                                        |
|------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|
| Specifications                                                                                                                                       |                                                        |
| PARAMETER                                                                                                                                            | VALUE                                                  |
| Output Voltage Range Class                                                                                                                           | Tens of volts DC class per 1746 datasheet              |
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| Ripple Class                                                                                                                                         | Low ripple laboratory supply class                     |
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| Relative Humidity Class                                                                                                                              | Up to 80 percent noncondensing class                   |
| Export Classification Class                                                                                                                          | Commercial test equipment class                        |
| Series Parallel Class                                                                                                                                | Two supplies may be series or parallel connected class |
| Voltage Controls Class                                                                                                                               | Front panel adjust class                               |
| Notes                                                                                                                                                |                                                        |
| From BK Precision 1746 DC Power Supply OEM product documentation. Confirm exact voltage and current ratings on the faceplate and datasheet revision. |                                                        |

### Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: [sales@aumictech.com](mailto:sales@aumictech.com) · +1 (484) 841-9341

#### Aumictech

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.